

Patent claims:

- Polysaccharide
536
1. [A polyglucan and/or polyglucan derivative]
obtainable from polyglucan sucrase or amylosucrase
in the presence of at least one transferase and/or
one glycosyltransferase.
- 5
- Enzyme
435
2. The amylosucrase as claimed in claim 1 having an
amino acid sequence according to SEQ ID. No. 1.
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3. The polyglucan derivative as claimed in one of the
preceding claims, wherein the polyglucan
derivative is a polyglucan ester or a polyglucan
ether or a nature-identical polymer.
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4. The polyglucan derivative as claimed in one of the
preceding claims, wherein the polyglucan
derivative is a graft polymer, block polymer,
copolymer, random copolymer or a starburst
polymer, ladder polymer or band polymer.
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5. A process for producing polyglucans and/or
polyglucan derivatives as claimed in claims 1-4,
which comprises at least one transferase and/or
one glycoside transferase being added to
amylosucrase in vitro.
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6. The use of at least one polyglucan and/or one
polyglucan derivative as claimed in claims 1 to 5
for use as excipient.
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7. The use of at least one polyglucan and/or one
polyglucan derivative as claimed in claims 1 to 5
as depot system for at least one active component
having a therapeutic or prophylactic effect.
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8. The use of at least one polyglucan and/or one
polyglucan derivative as claimed in claims 1 to 5

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for the pharmaceutical sector, preferably
excipient and/or tableting aid.

- 5 9. The use of at least one polyglucan and/or one
polyglucan derivative as claimed in claims 1 to 5
for the agrochemical sector, preferably as
carrier.
- 10 10. The use of at least one polyglucan and/or one
polyglucan derivative as claimed in claims 1 to 5
for cosmetic applications.
- 15 11. The use of at least one polyglucan and/or one
polyglucan derivative as claimed in claims 1 to 5
as food and/or food additive.
12. The use of at least one polyglucan and/or one
polyglucan derivative as claimed in claims 1 to 5
as carrier for flavorings and fragrances.